



SUPREME AUDIT INSTITUTION OF INDIA
लोकहितार्थ सत्यनिष्ठा
Dedicated to Truth in Public Interest

International Centre for Environment Audit and
Sustainable Development (iCED)-
A Global Training Facility of
INTOSAI Working
Group on Environmental Auditing (WGEA)
and
Working Group on Audit of Extractive
Industries
(WGEI)



Note on International Trainings and Workshops/ Webinars

International Centre for Environment Audit and Sustainable Development (iCED) has been set-up under the aegis of the Comptroller and Auditor General of India (C&AG) for capacity building and knowledge sharing in the area of environment audit and sustainable development.

It is a designated Global Training Facility (GTF) of Working Group on Environmental Audit (WGEA), as well as of the Working Group on Extractive Industries (WGEI) of International Organizations of Supreme Audit Institutions (INTOSAI).

iCED is also a leading institution conducting training programmes on Environment Audit under Indian Technical and Economic Cooperation Programme (ITEC) sponsored by the Ministry of External Affairs, Government of India. The institution also conducts domestic training programmes on audit of environmental issues and sustainable development areas for its internal capacity building programmes.

iCED embarked on its capacity building efforts in October, 2013. This facility seeks to harness India's expertise in conducting environment audits to provide extensive training and to act as a forum for experience sharing and research.

Venue and location

iCED has been set up near the historical city of Jaipur in India, located around 230 kilometres from Delhi, the capital of India. The campus is located at a distance of one hour to one and a half hour (in peak traffic conditions) from the Jaipur International Airport. Located in picturesque surroundings, iCED is an 85 percent “Green Campus” with considerable flora and fauna on-site.

Premium Properties nearby

There are a few premium five-star dining facilities (i.e. Fairmont/Le-Meridian) located at a distance which takes 20 to 25 minutes from iCED, Jaipur. City Centre is approximately 50 minutes to one hour away, in peak traffic conditions.

Climate at Jaipur

Jaipur has a hot semi-arid climate. Starting April, it becomes very hot in Jaipur with average temperatures above 37 degrees Celsius (98° Fahrenheit). During the months of July and August, the city experiences a short monsoon. September to March are appropriate for stay for foreigners. The weather during these months is moderate to cold, though between Sep-Oct months it is also the monsoon season with moderate rains. All our international programmes are generally conducted during the period between September to March.

ICED is a designated Global Training Facility of INTOSAI Working Groups:

In the international arena, iCED is a designated Global Training Facility of Working Group on Environmental Audit (WGEA) and Working Group on Extractive Industries (WGEI) since March 2011 and August 2016 respectively. In 2018-19, 2019-20 and 2022-23 iCED also conducted training programmes on Environment Audit under ITEC programme sponsored by Ministry of External Affairs, Government of India, which could not be held in 2020 to 2022 due to pandemic related constraints.

Since its operationalization in 2013, iCED has conducted 37 International programmes (till March 2023). These programmes include Trainings/Workshops/Seminars pertaining to INTOSAI WGEA, ASOSAI WGEA, INTOSAI WGEI, Bilateral Training Programmes, programmes under ITEC and INTOSAI Development Initiative (IDI). A total of 1453 participants from 119 SAIs participated in these programmes conducted by iCED.

Multi-faceted environmental and sustainable development themes were covered in trainings and workshops conducted during 2019-20 to 2022-23 are given below:

Sl. No	Programme/ Course	Period	Course/ Theme	No of participant's
1.	International Training Programme under Indian Technical & Economic Cooperation (ITEC)	2019-20	Environment Audit	35
2.	International Training Programme (ITP), INTOSAI WGEA,	2019-20	Introduction to Environmental Auditing	26
3.	International Workshop, INTOSAI WGEA	2019-20	Sustainable Development: The Concept and Audit	13
4.	International Webinar, INTOSAI WGEA	2020-21	Climate Change and its implications for Sustainable Development	83
5.	International Training Programme (ITP), INTOSAI WGEA,	2020-21	Introduction to Environmental Auditing	63
6.	International Training Programme (ITP), INTOSAI WGEI	2020-21	Audit of Extractive Industries	87
7.	International Workshop, INTOSAI WGEA	2020-21	Biodiversity	53
8.	International Webinar, INTOSAI WGEA	2021-22	Renewable Energy and its Audit	173
9.	International Training Programme (ITP), INTOSAI WGEA,	2021-22	Introduction to Environmental Auditing	177
10.	International Workshop, INTOSAI WGEA	2021-22	Combating Desertification, Food Security and Sustainable Agriculture	62
11.	International Training Programme (ITP), INTOSAI WGEI	2022-23	Audit of Extractive Industries	64
12.	International Webinar, INTOSAI WGEA	2022-23	Clean Water and Sanitation	47
13.	International Training Programme (ITP), INTOSAI WGEA,	2022-23	Environment Audit	9
14.	International Workshop, INTOSAI WGEA	2022-23	Climate Change Mitigation and Adaptation Strategies including Green Finance	16

15.	International Training Programme (ITP), INTOSAI WGEI	2022-23	Audit of Extractive Industries	14
16.	International Training Programme under Indian Technical & Economic Cooperation (ITEC)	2022-23	Environment Audit	38

An Uptick in Online Participation

Ever since the onset of pandemic conditions due to travel related restrictions, iCED has conducted its international programmes online and has hosted trainings, workshops as well as Webinars. The number of international participants has greatly increased since 2020-21 due to the online forums utilized. During 2020-21 to 2022-23 (up to March, 2023), a total of 847 participants representing 84 SAIs participated in 3 International Webinars, 5 International Training Programmes and 2 International Workshops. The details are as follows:

Sl. No	Training	No. of Participants /No. of SAIs	Name of SAIs
1	International Webinar on Climate Change and its implication for Sustainable Development	83/45	Bahrain, Bangladesh, Belgium, Bhutan, Bulgaria, Canada, Cayman Island, Chile, China, Costa Rica, Cyprus, Czech Republic, Egypt, Estonia, Eswatini, Ethiopia, Fiji, Finland, Greece, India, Italy, Jamaica, Japan, Jordan, Kenya, Madagascar, Malaysia, Malta, Mexico, Moldova, Morocco, Myanmar, Nepal, Palestine, Philippines, Kuwait, Samoa, Seychelles, Slovak, South Africa, Sudan, Tajikistan, Thailand, Vietnam, Yemen
2	8th International Training Programme on Introduction to Environmental Auditing	63/36	Afghanistan, Argentina, Bahrain, Bangladesh, Bhutan, Botswana, Brazil, Brunei, Bulgaria, Cyprus, Egypt, Fiji, Finland, India, IRAN, Japan, Jordan, Lithuania, Madagascar, Malaysia, Morocco, Myanmar, Nigeria, Oman, Philippines, Kuwait, Russia, Samoa, Serbia, Slovak, Tajikistan, Tanzania, Thailand, Turkey, USA, Uzbekistan
3	International Training Programme on Audit of Extractive Industries	87/26	Argentina, Bahrain, Botswana, China, Ecuador, Egypt, Eswatini, Federated States of Micronesia, Fiji, India, Iran, Iraq, Libya, Morocco, Niger, Nigeria, Philippines, Qatar, Russia, Senegal, South Sudan, Thailand, , Tunisia, Yemen, Zambia, Zimbabwe

4	International Workshop on Biodiversity	53/27	Algeria, Bhutan, Bulgaria, Cayman Island, China, Egypt, Eswatini, Greece, India, Jamaica, Jordan, Lithuania, Madagascar, Morocco, Myanmar, Nepal, Oman, Philippines, Romania, Russia, Samoa, Sri Lanka, Sudan, Tajikistan, Turkey, Uganda, Yemen
5	International Webinar on Renewable Energy and Its Audits	173/31	Argentina, Bahrain, Botswana, Bulgaria, Cayman Island, Czech Republic, Egypt, Estonia, European Court of Auditors, Finland, Ghana, Greece, India, Italy, Jamaica, Japan, Jordan, Madagascar, Malaysia, Maldives, Montserrat, Nepal, Pakistan, Philippines, Russia, Seychelles, Sudan, Tanzania, Uganda, Vietnam, Yemen
6	9th International Training on Introduction to Environmental Auditing	177/35	Australia, Bahrain, Bangladesh, Bhutan, Botswana, Brunei, Bulgaria, Cayman Islands, Costa Rica, Egypt, ECA, Fiji, Ghana, Greece, India, Iraq, Ireland, Italy, Jamaica, Japan, Kuwait, Madagascar, Maldives, Nepal, Oman, Philippines, North Macedonia, Seychelles, Sri Lanka, Sudan, Thailand, Tunisia, Vietnam, Yemen
7	International Workshop on Combating Desertification, Food Security and Sustainable Agriculture	62/24	Algeria, Azerbaijan, Botswana, Brunei, Bulgaria, Costa Rica, Egypt, ECA, Guyana, India, Iraq, Italy, Ivory Coast, Japan, Madagascar, Maldives, Morocco, Nepal, Pakistan, Philippines, Romania, Sudan, Tanzania
8.	International Training Programme on Audit of Extractive Industries	64/12	Algeria, Botswana, Ecuador, Egypt, Eswatini, India, Morocco, Qatar, Uganda, Vietnam, Yemen, Zambia
9.	International Webinar (INTOSAI WGEA) on Clean Water and Sanitation	47/14	Afghanistan, Bulgaria, Egypt, Ethiopia, India, Italy, Jamaica, Kenya, Madagascar, Maldives, Morocco, Sudan, Tunisia, Vietnam
10.	3rd Indian and Economic Cooperation Programme (ITEC) on "Environment Audit"	38/17	Afghanistan, Costa Rica, Egypt, Eswatini, Ethiopia, Ghana, Guyana, India, Indonesia, Iran, Mauritius, Mozambique, Nepal, Papua New Guinea, Tanzania, Tunisia, Zimbabwe

Summary of International Trainings/ Workshops/ ITEC programmes conducted in online/ onsite mode since 2013 (up to March 2023):

Sl. No	Type of Programme	Course/ Theme	Total no. of programme (since 2013)	No of participant's
1	International Training Programme (ITP), INTOSAI WGEA	Introduction to Environmental Auditing	10 (8 Onsite and 2 Online)	400 (160- Onsite 240- Online)
2	International Training Programme (ITP), INTOSAI WGEI	Audit of Extractive Industries	3(1 Onsite and 2 Online)	167 (16- Onsite 151- Online)
3	International Workshop/Webinar, INTOSAI WGEA	Audit of Water issues	1 (Onsite)	12 (Onsite)
		Audit of Waste Management	1 (Onsite)	20 (Onsite)
		Sustainable Development: The Concept and Audit	1(Onsite)	13 (Onsite)
		Climate Change and its implications for Sustainable Development	1 (Online)	83 (Online)
		Biodiversity	1 (Online)	53 (Online)
		Renewable Energy and its Audit	1 (Online)	173 (Online)
		Combating Desertification, Food Security and Sustainable Agriculture	1 (Online)	62 (Online)
		Clean Water and Sanitation	1 (Online)	47 (Online)
		Climate Change Mitigation and Adaptation Strategies including Green Finance	1 (Onsite)	16 (Onsite)
4	Indian Technical and Economic Cooperation (ITEC), MoEA, Govt. of India	Environment Audit	3 (2 Onsite and 1 Online)	109 (71- Onsite 38-Online)
5	Bilateral Training Programmes	Contract Audit, Forensic and Performance Audit; Performance Audit including Environment Audit and CATTs, Gender, Environmental Auditing, Audit of State-Owned Enterprises; Audit of Construction Activities	8 (Onsite)	157 (Onsite)
			33 (23 onsite and 10 Online)	1310 (463 Onsite and 847 Online)

In addition to the above, one ASOSAI WGEA Seminar, two IDI programmes, and one WGEI Task Force Learning Committee meeting were held during 2016-2018.

The institute also plays a stellar role in enhancing learning and exchange of best practices and experiences among peers in both INTOSAI WGEA and ASOSAI WGEA forums.

These include sharing climate-related audit experiences through participation in Steering Committee and Assembly Meetings of both organizations.

iCED is now gradually resuming on-site capacity-building efforts of global training.

iCED as an Envisaged Centre of Excellence on Audit of Blue Economy:- iCED is also envisioned as a Centre of Excellence on Blue Economy to focus on issues related to the audit of Blue Economy sectors' with special focus on sustainable marine and coastal ecosystem management, marine spatial planning, marine fisheries and marine pollution, among others.

We strive to act as a global Centre of Excellence in capacity building and research and Environment Audit and Sustainable Development including the evolving focus area of Audit of Blue Economy.

Using an interdisciplinary approach made possible by valuable partnerships, we strive to develop high quality products in training and research to enrich environment audit.

Research efforts in concerted conjunction with International Relations Division of SAI India are currently on in the following areas:

INTOSAI WGEA: iCED is the technical focal point of SAI India which is a member of the Executive Committee in the Climate Scanner Project, under the WGEA work plan 2023-25.

- **Climate and Biodiversity Hub SAI Brazil initiative on Coordinated Rapid Reviews on Climate Governance:** SAI India is an executive group member and iCED has been entrusted as a technical focal point. A Workshop on Climate Change Mitigation and Adaptation Strategies including Green Finance was held at iCED Jaipur from 13th to 17th February 2023.
- **Green Economy Hub Environmental Accounting:** SAI UK is the team leader and SAI India is a member of this project.
- **Environmental GUIDs under the INTOSAI FRAMEWORK OF PROFESSIONAL PRONOUNCEMENTS (IFPP):** SAI India is a member of this project.

ASOSAI WGEA:

- On behalf of SAI India, iCED prepared and evolved a Country paper on the Audit of Climate Change and the presentation via IR Division was sent for onward transmission to ASOSAI Secretariat during the 8th ASOSAI WGEA Seminar on Environmental Auditing.

- Director (T&R), iCED, Jaipur attended the online meeting of ASOSAI WGEA Cooperative research on the topic of “The Role of SAI and Auditing Climate Change” held on July 21, 2022 and “The Role of SAI and Auditing Climate Finance ” held online in 3-4 October 2022 organized by SAI Thailand.
- Further, iCED Jaipur sent feedback on “10^t Survey of ASOSAI WEGA” to IR Division on February 14, 2023.
- iCED Jaipur sent Country Paper on “Responding to Climate Change and Environmental Protection Audit” on 17th April 2023.

Knowledge-sharing Roles:

iCED also extensively contributes to the research inputs/articles of SAI India for INTOSAI, SAI20, ASOSAI and other SAIs:

- Auditing Plastic Waste - An Overview and Experience from - SAI India (ASOSAI Journal October 2022).
- Article on “Green Features in Design and Construction” (INTOSAI Newsletter Green lines, July 2022).
- Inputs on Decarbonisation of the power sector to National Audit Office (NAO, UK June 2022), UK.
- Inputs on SAI India’s contribution towards SDGs (SAI 20, June 2022).
- Article on Auditing Climate Change: An Overview and Experience (ASOSAI Journal, April 2022).

Green Files- A Quarterly Publication on Environmental Issues

Green Files, a quarterly newsletter published by iCED features glimpses of recent environmental news, key events, emerging trends, innovations, initiatives and efforts of different organizations to protect the environment- which can act as a corpus of information for environment audits in particular. iCED has published 44 volumes of Green Files till date, and the publication is available for viewing in the website www.iced.cag.gov.in

Occasional Research Paper Series of iCED

iCED has recently published Research papers in an Occasional Research Paper Series comprising five themes including use of recent technology for audits, Eco-Tourism and Disaster Preparedness, Use of recent Technologies for study of Environmental Issues and Audit, Waste Management, Air Pollution and Forest/ Biodiversity compendium. Following Occasional Research Paper have also been published by iCED on the basis of in-house research for benefit of auditors across SAIs:

- Climate Change Adaptation in India in the Context of Urban Flooding.
- Urban Planning- A Compendium Report of Delhi and Jaipur from Environmental Perspective.
- Municipal Solid Waste Management in India-A Compendium Report.
- Bus Rapid Transit In India.
- Causes, impacts, risk and mitigation of Urban Flood Management in India.
- Review of Urban Transport Challenges and Sustainable Urban Transport Policies for Jaipur City.
- Research Compendium of Study reports by Interns (Volume I & II).

In the years ahead, the road-map for iCED will continue to focus on cutting-edge training and capacity building efforts at both national and international levels, especially as climate action and environmental issues receive increased attention from SAI's in the light of global momentum to these critical areas. In the international arena in particular, the institute is uniquely placed as a dedicated training and knowledge – sharing platform to support various SAI's around the world in their audit activities in the environmental and sustainable development fields.

Residential Facilities at iCED iCED being a residential training facility offers comfortable residential facilities. It has spacious rooms and amenities for a comfortable stay. We usually charge for overheads like food, stay, local travel, excursions and any other needs of individual trainees/participants.

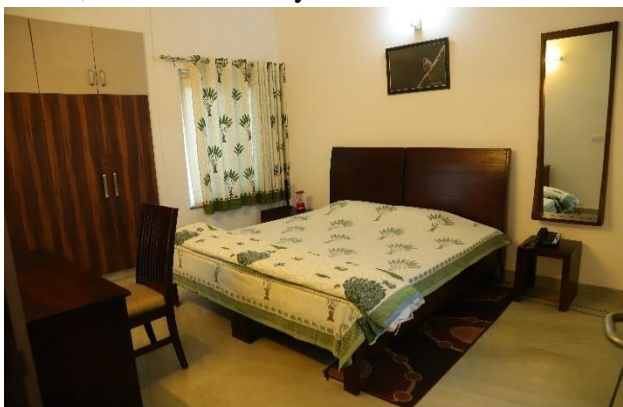
1. **One Premium VIP Suite** for Head of the SAI (s) with twin room equipped with separate ensuite washrooms, spacious wardrobes, Wi-Fi, cordless phone, hot and cold water facility, a common lounge with dining table, Sofa and TV facilities. A mini Kitchen equipped with refrigerator, hot and cold drinking water, microwave and cutlery and essential kitchen equipment.



2. **Premier Deluxe Rooms** (Total 2 numbers) One bedroom along with a drawing room with facilities such as wi-fi, refrigerator, phone, hot and cold water, dining table, Electric kettle, Iron Board, TV basic cutlery and toiletries. A mini Kitchen equipped with refrigerator, hot and cold drinking water, and cutlery etc.



3. **Deluxe Rooms** (Total 15 Numbers) One bedroom along with a meeting room with facilities such as Wi-Fi, mini refrigerator, phone, hot and cold water, dining table, Electric kettle, Iron Board, TV basic cutlery and toiletries.



4. **Participant Rooms-** (Total 45 Numbers) Single room with facilities such as wi-fi, desktop, mini refrigerator, electric kettle, phone, hot and cold water, TV and basic toiletries.



5. **Kitchen and Dining Facilities-** One Dining hall with seating capacity of 45 persons and Kitchen with facility of preparing simple, locally sourced and fresh Indian food with special focus on Rajasthani delicacies is available.



6. **Sports Facilities-** A sports complex equipped with swimming pool, Gymnasium, Squash, Table Tennis, Billiards, Badminton and Tennis Court. In addition, a basketball practice facility is available. Chess and carom board game facilities are also available.





Training Facilities

Institutes provides training facility i.e large spacious training halls as well as necessary equipment for the capacity development activities such as projector, screens, photocopier, printers and stationary folders etc. during the period of meeting. Besides we have a large auditorium having seating capacity for at least 80 persons with social distancing for Audio –Visual presentations for large





Library at iCED provides a comfortable reading space and sitting arrangement in an air conditioned environment for participants to study and research. The library has computer stations also for the participants to access online resources. Theme-wise arrangements of Books provide easy access to publications and the entire collection is available online also through intranet so that participants can easily locate the desired book. Currently the library has 1541 books on various topics. Besides there are audit reports, magazines and other specialized publications. In addition to the library, a mini conference hall/Board room is also available for participants/faculties for brainstorming and other small meetings.



Sustainability on Campus- 85 percent of the Campus is a 'Green Zone' with variegated flora and fauna



The surrounding landscapes at iCED are not only of aesthetic value, they are also a part of the living environment, and are providing a green cover, to alleviate the effects of any particulate matter and other toxic pollutants in the atmosphere. As many of the trees and shrubs are predominantly local plant species, native to the area, their hardy survival controls excessive erosion caused by wind or rain, as well as act as catalysts for groundwater recharge. They are also an integral part of the biodiversity of a terrain which encompasses scrubland, arid patches and hilly deciduous vegetation. Thus on this campus, we “practice what we preach”, for environmental sustainability and perpetuating a “Green Campus” is a way of life, as well as an academic discourse. Almost 85 percent of our campus is a green belt.



I. Green Features in Design and Construction

The norms prescribed in Energy Conservation Building Code 2006 of India have been applied for energy efficient design and construction of the building. Some of these features are:

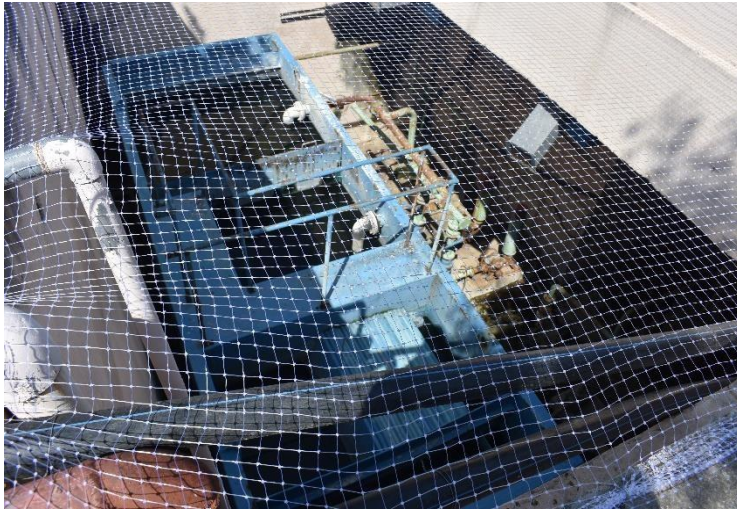
- Use of locally available building material to minimize the environmental impact.
- Use of *fly ash* in concrete and bricks.
- Double glazed windows & doors with solar reflecting films, insulated Walls and Dry cladding of stones to reduce heat transmission.
- Energy efficiency features include orientation optimization, overhang sizing, skylights, energy efficient lighting fixtures etc. □ Use of solar water heating system.

II. Green features in Operations of iCED



- A Solar Farm (50 KVA) to demonstrate the use of clean energy.
- Rain water harvesting system secures maximum benefit from each raindrop falling in the campus.





- Sewage Treatment Plant (STP) of 40 Cu. M. per day for waste water treatment and reuse. Grey water is treated within campus and used for the gardens. Drip irrigation method is also used for water conservation.

- Organic waste (garden, kitchen / food) is composted within the campus. The use of plastic material is discouraged.
- The Rare Trees Park has eight tree species which have become rare in the region. Besides 20 herbs/trees having medicinal properties are also planted.



- Thermal cooling / heating through Earth Air Tunnel to demonstrate technology that uses earth as a heat sink for cooling in summer and as a heat source during winters.

Collage/Glimpses of Campus



